

CLAIMS

I claim:

1. A Method for Enhancing Visibility at various light conditions, comprising steps like:

Focusing the desired object or view (source image) on a light modulating device.

Modulating the light of the focused image (object) by a system like a Light Control Panel (LCP), such that desired image elements can have different intensities thus generating an enhanced image.

Projecting the said enhanced image with or without magnification.

Whereby said light and enhanced image can be of any frequency range in the spectrum.

2. Focusing and projecting the desired image according to claim 1 using devices such as optics where said optics may comprise an Optical Array based on any optical technology such as:

Surface Implemented Optics Technology.

Diffractive Optics

Binary Optics

Conventional Optics

Optical Film Array

Holographic Optics

3. Light modulating system according to claim 1 wherein said light modulating system may comprise a Light Control Panel (LCP) based on any pixelated light modulating technology such as:

- Reflective

- Transmissive
- Polarizing.
- Rotating
- Directing
- Phase Shifting

4. A Visibility Enhancing Method according to claim 1 where the source image is collimated and manipulated such that the enhanced image appears to be originated from the source image.

Whereby said light and enhanced image can be of any frequency range in the spectrum.

5. A Visibility Enhancing Method according to claim 4 where the same device used for focusing the desired object can be used for projecting and collimating the said enhanced image .

6. A Light Controlled Panel (LCP) comprising light modulating material, pixel electrodes, light sensitive elements and associated pixel control mechanism to produce an image, where the optical characteristics of any pixel of said image may be controlled by the said light sensitive element.

Whereby said light modulating material and light sensitive elements can be used at any frequency band in the spectrum

7. A Light Controlled Panel (LCP) according to claim 6, where said Light Controlled Panel is based on any pixelated light modulating technology such as:

- Reflective
- Transmissive
- Polarizing.

- Rotating
- Directing
- Phase Shifting

8. Control mechanism according to claim 6 wherein said control mechanism may control the magnitude of the light modulation of the entire LCP in addition to controlling image pixels by the said light sensitive element.

9. A Method for Enhancing Visibility according to claim 6 by inserting a device like a Light Control Panel (LCP) in the light path of a system at a location where an image or a sub-image is created, such that desired image or sub image elements can have different intensities.

Whereby the said method can be implemented for any frequency range in the electromagnetic spectrum.